Amendments to the Claims

Please add Claims 53 and 54. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1-41. (Cancelled)

42. (Previously Presented) A method for managing a signal, comprising:

searching for a pilot tone by scanning a frequency range in predetermined frequency steps;

recovering a pilot tone sub-symbol;

calculating a parameter value difference between the pilot tone sub-symbol and a consecutive pilot tone sub-symbol; and

adjusting a clock signal frequency depending on the parameter value difference to lock on a phase and frequency of the pilot tone.

- 43. (Previously Presented) The method of Claim 42, wherein recovering the pilot tone sub-symbol comprises adjusting the clock signal frequency so that the pilot tone sub-symbol can be received.
- 44. (Previously Presented) The method of Claim 42, further comprising identifying the pilot tone sub-symbol.
- 45. (Previously Presented) The method of Claim 44, wherein identifying the pilot tone subsymbol comprises scanning a plurality of bins to locate a bin containing the pilot tone subsymbol.
- 46. (Previously Presented): The method of Claim 42, wherein the parameter comprises phase.

- 47. (Previously Presented) The method of Claim 42, further comprising using the clock signal frequency for phase locked loop processing.
- 48. (Previously Presented) An apparatus for managing a signal, comprising:
 - a search unit to search for a pilot tone by scanning a frequency range in predetermined frequency steps;
 - a clock source that recovers a pilot tone sub-symbol;
 - a calculator of a parameter value difference between the pilot tone sub-symbol and a consecutive pilot tone sub-symbol; and
 - an adjustor of a signal frequency of the clock source depending on the parameter value difference to lock on a phase and frequency of the pilot tone.
- 49. (Previously Presented) The apparatus of Claim 48, wherein the clock source is a voltage controlled oscillator.
- 50. (Previously Presented) The apparatus of Claim 48, further comprising an identifier of the pilot tone sub-symbol.
- 51. (Previously Presented) The apparatus of Claim 48, wherein the parameter comprises phase.
- 52. (Previously Presented) The apparatus of Claim 48, further comprising a phase locked loop processor that processes based on the signal frequency.
- 53. (New) The method of Claim 42 further including locking on the phase and frequency of the pilot tone as a function of adjusting a voltage controlled oscillator using a phase locked loop.
- 54. (New) The apparatus of Claim 48 further including a locking module arranged to lock on the phase and frequency of the pilot tone as a function of adjusting a voltage controlled oscillator using a phase locked loop.